

2375

CONT.

patients are explained by the passive type of venous hypertension in constrictive pericarditis, which was proved by personal results of catheterization of the veins and the heart. Also the role of respiratory movements in the circulation of venous blood is emphasized and a marked influence of the stopping of respirations on the increase of venous pressure (by 105-150 mm. water) is shown. (XVIII, 9)

GOMULKA, Jerzy; JUSZCZYNSKI, Michal

Eosinophil count in peripheral blood in patients with the so-called dumping syndrome following stomach resection. Polaki tygod. lek. 13 no. 27:1042-1044 7 July 58.

1. (z III Kliniki Chirurgicznej A. M. w Krakowie: kierownik: prof. dr Jerzy Jasienski) Krakow, ul. Dietla 63/6.  
(EOSINOPHIL COUNT, in various dis.  
dumping synd. (Pol))  
(GASTRECTOMY, compl.  
dumping synd., eosinophil count in (Pol))

JUSZCZYSKI, M.

Deep hypothermia in cardiac surgery. Polski tygod.lek, 16 no.2:  
65-69 9 Ja '61.

l. Z Oddzialu Chirurgicznego Instytutu Gruzdicy w Warszawie;  
kierownik: prof.dr Leon Manteuffel.  
(HEART SURGERY)  
(HYPOTHERMIA INDUCED)

JUSZCZYNSKI, Michal

Studies on the etio-pathogenesis of post-resection stomach disease. Polski przegl.chir.32 no.2:133-152 W '60.

1. z III Kliniki Chirurgicznej A.M. w Krakowie. Kierownik: prof.  
dr. J. Jasieniak.  
(GASTRECTOMY compl.)

On a Class of Continuous Functions  
J. A. Milne. Sur certaines classes de fonctions  
continues. (Casopis Pěst. Mat. 83 (1958), 83-90. (Czech.  
Russian and French summaries)

Let  $0 < \sigma < r \leq 1$ . Auerbach and Banach proved [Stu-  
dia Math. 3 (1931), 180-184] the existence of a function  
 $f(x)$  satisfying (i) a Lipschitz condition of order  $\sigma$ , (ii)  
 $\limsup_{x \rightarrow x_0} |f(x) - f(x_0)|/|x - x_0|^r = \infty$  for all  $x_0$ . The author  
gives an explicit construction of such a function. It follows  
that there exists, for each natural number  $m$ , a continuous  
function  $f(x)$  such that (i) for any non-constant  
polynomial  $P$  of degree less than  $m$ ,  $P(f(x))$  nowhere  
possesses a finite derivative, (ii) there exists a polynomial  
 $Q$  of degree  $m$  such that  $dQ(f(x))/dx = 0$  for one point  $x$  at  
least.

F. A. Behrend (Melbourne)

CIESLUKOWA, Dr.; JUSZKA, Dr.

Prevention and control of accidents in industry; report of the Polish delegation. Pracovní lek. 11 no.1-2:115 Feb 59.  
(ACCIDENTS, INDUSTRIAL, prev. & control,  
in Poland (Cz))

MORZYCKI, Jerzy; TAYLOR, Karol; JUSZKIEWICZ, Eugeniusz

Attempted detection of infectious jaundice viruses in allantoic fluids of chick embryo and in tissue culture fluids by electron microscopic method. Bull. Inst. Marine Trop. M. Gdansk 7:p.45-47; Russian transl. p.47-48; English transl. p. 49-50 1956.

1. Z Państwowego Inst. Med. Mors. Trop. w Gdansku.

(HEPATITIS, INFECTIOUS, virus,

electron microscopy in allantoic fluid & tissue culture  
(Pol; Rus; English))

(VIRUSES,

hepatitis, electron microscopy in allantoic fluid &  
tissue culture (Pol; Rus; English))

(TISSUE CULTURE,

cultivation of hepatitis virus, electron microscopic  
detection (Pol; Rus; English))

(MICROSCOPY, ELECTRON,

of hepatitis virus in allantoic fluid & tissue culture  
(Pol; Rus; English))

JUSZKIEWICZ, J.

Selection of material for building the framework of a typical electric power plant,  
p. 2. (ENERGETYKA, Stalinogrod, Vol. 9, no. 1, Jan./Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jun. 1955,  
Uncl.

JUSZKIEWICZ, T.

~~Contributions in the field of biology of Ol'ga Lepeshinskaja.~~  
Med.vet. 6 no.10:566-572 Oct 50. (CLWL 20:5)

JUSZEKIEWICZ, T.

British Abst.

A III

Aug. 1953

General. Organs and Constituents  
Not Included Elsewhere. Comparative  
Physiology

Histiocyte reaction after administration of tissue extracts to white  
mice. F. Stański, H. Rubin, and T. Juszkiewicz (Ann. Univ.  
M. Curie-Skłodowska, 1952, 6 (DD), 387-406).—Intraperitoneal  
injections of extracts prepared from cattle eyes according to Filatov  
were not followed by increase in the histiocyte count of the viscera,  
except possibly in the spleen. The therapeutic effect of Filatov's  
extracts must therefore be due to activation, rather than to pro-  
liferation, of these cells.

R. Truscott

(4)

JUSZKIEWICZ, T.

"Researches on the Concentration of Sulfamethazine in the Blood of Domestic Animals", P. 546, (MIDYCZNA WETERYNARIJNA, Vol. 9, No. 12, Dec. 1953, Warszawa, Poland).

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

~USZKiewicz

*✓* The effect of therapeutic doses of vitamin D<sub>3</sub> on the calcium and inorganic phosphorus level in the blood of sheep. G. Stasiukiewicz, T. Jusakiewicz, and M. Rostanowski (Wyższa Szkoła Rolnicza, Lublin). *Mit. Veterinär.* (Poland) 12, 217-24 (1930).—A single intramuscular injection of a therapeutic dose of vitamin D<sub>3</sub> administered to sheep kept on a winter diet raised their Ca and P content of blood serum. Sheep in pasture showed an increase in P, but not in the Ca level of blood. *Z. Roberts*

JUSZKIEWICZ T

POLAND/General Problems of Pathology. Immunity.

U-1

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 27600

Author : Juszkiewicz, T.

Inst : Not Given

Title : Magnesium and Properdin. Their Role in Body's Protection.

Orig Pub : Med. weteryn., 1957, 13, No 2, 88-94

Abstract : No abstract.

Card : 1/1

POLAND / General Problems of Pathology. Immunity.

U

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720009-7"

Abs Jour : Ref Zhur - Biol., No 9, 1958, 41868.

Author : Juszkiewicz, T.

Inst : Not given.

Title : The Properdin System.

Orig Pub: Kosmos (Polska), 1957, A 6, No 3, 263-269.

Abstract: No abstract:

Card 1/1

JUSZKIEWICZ, T.

Drugs acting upon the thyroid gland and resistance of rats to high environmental temperature. Acta physiol.polon.11 no.5/6: 748-749 '60.

1. Z Zakladu Farmakologii Doswiadczonej i Lecznictwa Instytutu Weterynarii w Pulawach.  
(HEAT)  
(THYROID ANTAGONISTS pharmacol)

JUSZKIEWICZ, T.; MADEJSKI, Z.; GORZELEWSKA, K.; GRUNDBOECK, M. (Pulawy)

Studies on certain therapeutic and pharmacological properties of  
chlorpromazine hydrochloride in domestic animals. Roczn. nauk. roln.  
wet. 70 no.1/4:114-115 '60. (EEAI 10:9)

(Domestic animals) (Chlorodimethylaminopropylphenothiazine)

JUSZKIEWICZ, Teodor  
SURNAME, Given Names

(1)

Country: Poland

Academic Degrees: Dr.

Affiliation: Director of Department of Experimental Pharmacology and Therapeutics (Zaklad Farmakologii Doswiadczałej i Lecznictwa),  
Veterinary Institute (Instytut Weterynaryjny), Pulawy.

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 5, May 1961, pp. 262-  
-264.

Data: "Studies on the Pharmacodynamics of Some Drugs Under Stress Conditions."

Work performed in the Department of Physiology and Pharmacology,  
College of Veterinary Medicine, Iowa State University, Ames, Iowa  
and published in English in Am. J. Vet. Res.

70

JUSZKIEWICZ, Włodzimierz; PAWŁOWSKI, Wiktor

High-frequency measurements and analysis of their usefulness for measuring the radiant power of spurious emissions under conditions of operating radio emitting installations.  
Inst laczn Prace 10 no,2:47-84 '63.

KLOCEK, Tadeusz, mgr inż.; BALA, Stanisław, mgr inż.; JUSZKIEWICZ, Zbigniew,  
mgr inż.; MALINOWSKI, Lucjan, mgr inż.; WYSIATYCKI, Kazimierz, mgr  
inz.

Measurements of the ship hull pressure on the bow cradle during  
launching. Bud. okrętowe Warszawa 9 no. 10:346-350 '64

1. Technical University, Gdańsk.

JUSZKO, Jozef

Trauma in coal mining. Chir. narsad. ruchu ortop. Pol. 29  
no.5:575-588 '64.

1. Z Oddzialu Ortopedyczno-Urazowego Szpitala Miejskiego w Rybniku  
(Ordynator: lek. med. J. Jusko).

GROWINSKI, Adam; JUSZKO, Jozef

The problem of post-traumatic rehabilitation of miners in the  
Rybnik Coal Region. Chir. narzad. ruchu ortop. Pol. 29  
no.5:609-612 '64.

1. Z Oddzialu Chirurgii Ortopedycznej i Urazowej Szpitala  
Miejskiego Nr 1 w Rybniku (Ordynator: lek. med. J. Juszko).

JUSZKO, Jozef

Fixation of long bone fractures with modified Klimov's plate.  
Chir. narzad. ruchu ortop. Pol. 29 no.5:613-617 '64.

l. Z Oddzialu Ortopedyczno-Urazowego Szpitala Miejskiego w Rybniku  
(Ordynator: lek.med. J. Juszko).

JUSZKO, Josef

Treatment of costal fractures with a jacket of own design.  
Chir. narz. ruchu 21 no.5:529-532 1956.

1. Z Oddzialu Ortopedyczno-Urazowego w Rybniku. Ordynator:  
dr. J. Juszko. Adres autora: Rybnik Ul. Rudzka 13.  
(RIBS, fractures,  
ther., special jacket (Pol))

Juszko, J.

JUSZKO, J. (Rybnik, ul. Rudzka 13.)

Phylogenesis of the spine and idiopathic scoliosis. Chir. narz. ruchu  
22 no.2:105-110 1957.

1. Z Oddzialu Ortopedyczno-Urazowego przy Szpitalu Miejskim w Rybniku

Ordynator: dr J. Juszko.

(SCOLIOSIS, etiol. & pathogen.

Phylogenetic factors in idiopathic scoliosis (Pol))

JUSZKO, Jozef

A practical heel device for walking plaster casts. Chir. nars. ruchu  
22 no.5:569-571 1957.

1. Z oddzialu Ortopedyczno-urazowego w Rybniku. Ordynator: dr. J. Jusko.  
(PLASTER CASTS  
heel device for walking plaster casts (Pol))

EXCERPT MEDICA Sec.12 Vol.11/10 Ophthalmology Oct57

JUSZKO, K.

1569 JUSZKO K. Klin. Chor. Oczu P. A. M. im. Gen. K. Świeczewskiego Szczecin.  
\* Zespół zaburzeń rozwojowych oczu i kośćca. Syndrome of developmental disorders of the eyes and the spine KLIN. OCZNA  
1957, 27/1 (47-54) Graphs 2 Illus. 8

A case report which concerned some symptoms due to mesenchymal affections. In this family it also occurred in the mother while a case described concerned a son. In 2 step-brothers the lesion occurred also. Eye manifestations consisted of high myopia, subluxation of the lens, retinal detachment, metaplasia of the cells of the vitreous body. Short fingers, juvenile scoliosis of the vertebrae of the Scheuermann type, hearing troubles, and mental disorders accompanied the eye symptoms. The atrophic eye which was threatening sympathetic ophthalmia was removed. The histopathological picture showed strong bony fibres with some marrow cells in the place of the vitreous body. In other members of the family various troubles of mixed type were found also.

Szmyt - Łódź

JUSZTUSZ, G.

Transverse tomography. Magy. radiol. 3 no.2:84-86 1951.  
(CML 20:11)

1. Doctor. 2. Roentgenological Department (Head Physician  
Prof. Dr. Erno Koppenstein), Beno Gal Metropolitan Hospital.

JUSZTUSZ, Gy - EXCERPTA MEDICA Sec.16 Vol.4/3 Cancer March 56

1053. JUSZTUSZ Gy. and FÖLKÉR A. Megyei Kórház, Salgótarján, Hungary. Nagygorbuleti kettős ulcerus pepticum esete *Double peptic ulcer at the greater curvature of the stomach* Mag. Radiol. 1955, 7/2 (117) Illus. 1

At the greater curvature of the stomach of a male aged 50 complaining of epigastric pains, heart-burn and acid belchings a barium deposit the size of a plum was present, communicating with the gastric cavity by 2 channels, 3-4 mm. in width. Operative and microscopic control revealed an ulcer of the same size without malignancy.

Györgyi - Budapest

EXCERPTA MEDICA Sec.14 Vol.12/5 Radiology May 1953

*Jusztusz Gy.*

890. EASY METHOD FOR THE LOCALIZATION OF THE DUODENAL TUBE -  
Egyszerű eljárás a duodenum szonda helyzetének pontos megítélezéséhez -  
Jusztusz Gy. Nógrád Megyei Tanács Kórháza, Balassagyarmat, Hungary -

MAG. RADIOL. 1956, 8/3 (183) Illus. 1

To determine that the olive of a duodenal tube is lying in the stomach or in the duodenum the injection of air through the tube is advised. If the tip of the tube is in the stomach, the air injected is added to the stomach air bubble. Having passed the pylorus it accumulates in the duodenum.

Györgyi - Budapest

JUSZYNKI, J.

How the General Consumers Cooperative in Gora Slaska made its economy profitable.  
p.13.  
PRZEWOD GASTRONOMICZNY (Polskie Wydawnictwa Gospodarcze) Warszawa  
Vol. 11, no. 4, Apr. 1956

So. East European Accessions List      Vol. 5, No. 9      September 1956

JUTAS, Titusz, okl. gépész mérnök; KISBOCSKÓI, László, okl. gépész mérnök

A hydrodynamic clutch in the Hungarian coal mining. Bányi lap 93 no. 2:103-110 F'60.

1. A Duclos Bányagepgyár főmérnöke (for Jutas).
2. A Budapesti Műegyetem Vízgepek Tanszékének tudományos osztalyvezetője (for Kisbocskói).

JUTAS, Tivtsz, okleveles gepezsmernok; KISBOCSKOI, Laszlo, okleveles  
gepezsmernok

Statement on the study entitled "Hydrodynamic clutch in the  
Hungarian coal mining." Bany lap 94 no.2:142 F '61.

JUTASI, Erna; ZAMORAN, Janos

Hungarian-manufactured mercury oxide batteries. Radioteknika M.  
no. 7:270-271 J1 164.

MAKARESZ, Denes, dr.; BOROS, Tibor, dr.; JUTASI, Irma, dr.

Frequency of peritonitis in the industrial establishments  
of Pecs. Munkavedelem 10 no.7/9:30-32 '64.

1. Division of Surgery of the Pecs City Medical Clinic.

PAVISIC, Zvonimir; JUTRISA-KORZINEK, Blanka

Surgical treatment of secondary glaucoma in sympathetic ophthalmia.  
Radovi Med. fak. Zagrebu 1:53-59 1956.

(OPHTHALMIA, SYMPATHETIC, complications,  
glaucoma, surg. (Ser))

(GLAUCOMA, etiology and pathogenesis,  
ophthalmia, sympathetic, surg. (Ser))

PAVISIC, Z.; JUTRISA-KORZINEK, B.

Personal experience in the treatment of sympathetic ophthalmia.  
Acta med. iugosl. 10 no.2:198-206 1956.

1. Klinika za ocne bolesti Medicinskog fakultata u Zagrebu.  
(OPHTHALMIA SYMPATHETIC, ther.  
indic. (Ser))

YUGOSLAVIA

JUTRISA-KORZINEK, Dr Blanka, Eye Clinic (Ocna Klinika), Faculty of Medicine (Medicinski Fakultet), University (Sveuciliste) of Zagreb.

"The Treatment of Eye Injuries."

Zagreb, Lijecnicki Vjesnik, Vol 85, No 7, July 1963, pp 741-746.

Abstract: [Author's English summary modified] Although the number of emergencies in eye treatment is small, the author points out that prompt diagnosis and treatment may very often prevent disaster with eye injuries. The prognosis of mechanical injuries, foreign bodies, abrasions, and burns often depends on the type of emergency assistance provided, for which reason the author lists several basic procedures for use in the treatment of eye injuries.

Eight recent references, all Western but one Yugoslav.

JUTRONIC, A.

Radivoje Plavsic's Fragmenti iz prošlosti Sombora (Fragments from  
the Past of Sombor); a book review. Geogr.glas. no.19:209 '57  
(Published 1958). (MEAI 9:5)  
(Plavsic, Radivoje) (Vojvodine—History)

JUTRONIC, A.

Fluctuation of the population of Vis, Geogr glas 22:95-98 '60 (jubl '61).

JUTRONIC, Andre

The old evacuated and the new settlements on the east of  
Brac Island. Glas Srp geogr dr 42 no.1:63-75 '62.

JUTRONIC, Petar, inz. (Split, Drvarska ul. 1)

Electrification of Dalmatia, with a special emphasis on  
the role of the Hydreelectric-Power Plant Kraljevac.  
Energija Hrv 11 no.1/2:26-33 '62.

JELLINEK, Harry,; JUTTL, Tivadar.

Rare case of giant cell tumor in the thyroid gland. Kiserletes  
orvostud. 7 no.6:663-667 Nov 55.

1. Budapesti Orvostudomanyi Egyetem I. sz. Sebeszeti Klinikaja,  
es II. sz. Korbonctani Intezete.

(THYROID GLAND, neoplasms

giant cell sarcoma, metastatic to esophagus, throat  
& lungs, pathol. (Hun))

(GIANT CELL TUMORS

thyroid gland sarcoma, metastatic to esophagus, throat  
& lungs, pathol. (Hun))

COUPLESLOVAKIA

KASPARIK, R; MICHL, J; JUTE, C.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague; 2. Institute of Organic Chemistry of the Institute of Technology, Munich

Prague, Collection of Czechoslovak Chemical Communications, No 10, 1965, pp 3227-3232

"Electronic Structure of Non-Alternant Hydrocarbons, Their Analogues and Derivatives. IV. An ESR Study of Amino Derivatives of Fulvene and Vinyllogous Fulvene."

New upper leather tannery in Jihlava. Kozarstvi 14 no.1:  
18-22 Ja'64.

1. Ministerstvo spotrebniho prumyslu, Praha a Centroprojekt, n.p., Gottwaldov.

JUVA, Karel

The question of chemical sewage treatment. Karel Juya, *Phys. a. Veda* 14, 1930, 71-2, 97 (1931); *Chem. Zentral.* 1934, II, 2873. A critical review of chem. and electrolytic processes. M. G. Moore

#### 430-334 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619720009-7"

JUVA, Karel

JUVA, Karel

Odvodnovani pudy.  Vydr. 1  Praha, Statni pedagogicke nakl., 1953. 345 p. (Ucебни  
texty vysokych skol)  Land Drainage. bibl., diagrs.

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,  
April 1954. Unclassified.

JUVA, KAREL

Protiersni ochrana pudy. (Vyd. 1.) Praha, Statni zemedelske nakl., 1954.  
254 p. (Protection of soil against erosion. 1st ed.)  
DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

JUVA, Z.; ROŠÍK, F.

Hydraulic calculation of outlets for surplus water. p. 303.

Vol. 4, no. 10, Oct. 1954

VODNÍ HOPSOVÁRSTVÍ

Práha, Czechoslovakia

Source: East European Accession List. Library of Congress  
Vol. 5, No. 3, August 1956

JUVAN, Aleksandar, inz.

Reconstruction of the hauling installations in the pit of  
the Stara Jama Brown Coal Mine, Zenica. Rud met zbor 4:  
395-408 '63.

1. Srednjobosanski rudnici mrkog uglja, Zenica.

JUVAN, Vladimir, Dr.

Extirpatio uteri totalis vaginalis S. Mayo. Med. arh., Sarajevo  
10 no.3:33-38 May-June 56.

1. Ginekolosko-porodajno odjeljenje Opste bolnice Banja Luka.

Sef.: dr. Vladimir Juvan.

(UTERUS, surg.

hysterectomy, total, Mayo technic (Ser))

JUVAN, Vladimir

JUVAN, Vladimir, Dr.; MIKES, Andrija, dr.

Commissurotomy and pregnancy. Med. arh., Sarajevo 10 no.5:  
101-104 Sept-Oct 56.

1. Ginekolosko-porodajno i interno odeljenje opste bolnice u  
Banja Luci.

(COMMISSUROTOMY, eff.

on subsequent pregn. (Ser))

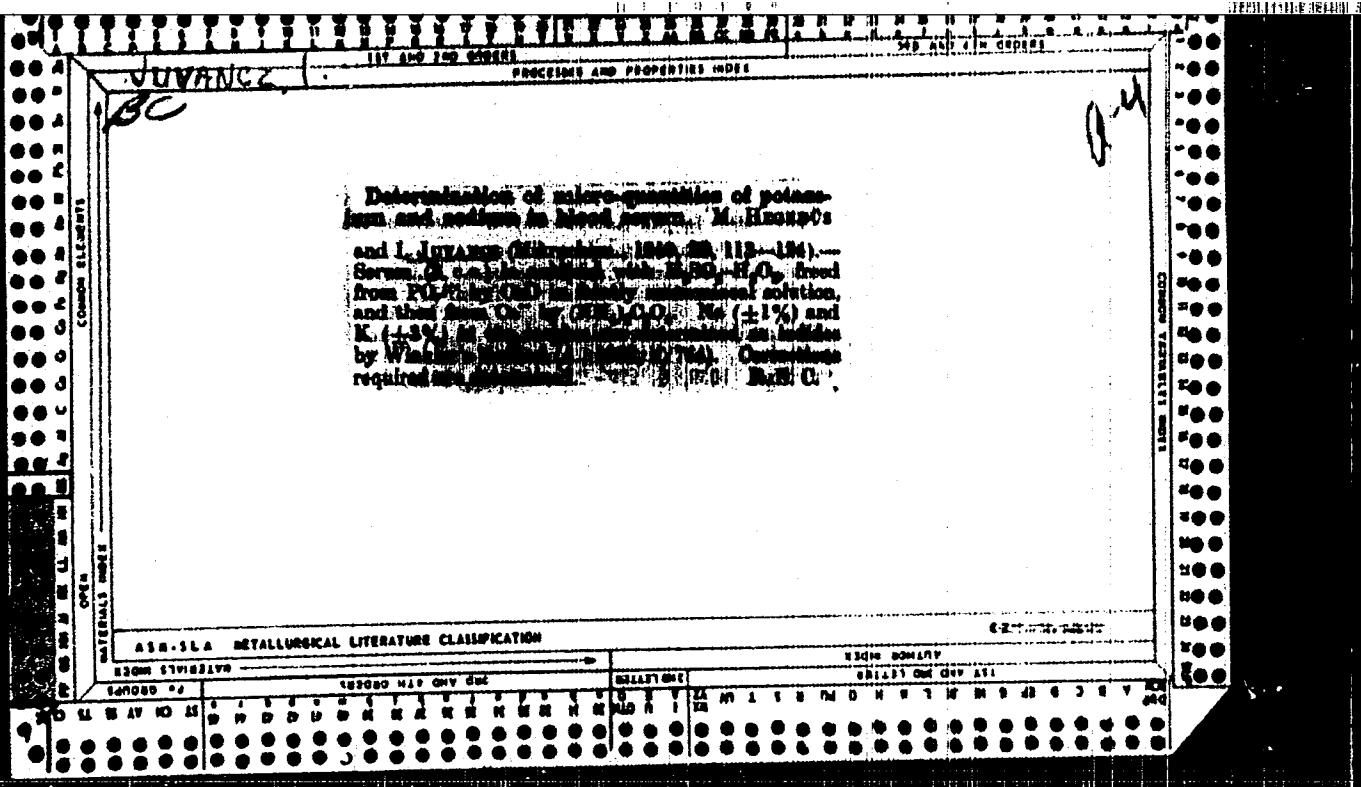
(PREGNANCY,

eff. of previous commissurotomy (Ser))

JUVANCZ, Endre

Operational reliability and durability. Magy hir techn 12 no.5:173-179 0 '61.

1. Hiradastechnikai Tudomanyos Egyesulet tagja; Koho- es Gepipari Miniszterium Hiradastechnikai Igazgatosaga.



JUVANCZ I. A korhazak betegnyilvantartasanak es betegkezelesenek statisztikai kerd-  
esei, Statistical problems of the registration and treatment of patients,  
Nepgeszsegugy, Budapest 1949, 30/14-15 (603-609)

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6

JUVANČ, IRENEUSZ

Mathematical Reviews  
Vol. 15 No. 3  
March 1954  
Analysis

7-8-54  
✓

Juvancz, Irénusz, et Lipták, Tamás. Sur quelques propriétés de la vérification médico-biologique de la statistique mathématique. Magyar Tud. Akad. Alkalm. Mat. Fiz. Közl. 1 (1953), 173-186 (1953). (Hungarian. Russian and French summaries).

Consider a random variable with a continuous distribution function and take  $2n$  independent observations forming two samples of size  $n$ . Denote by  $S_n(x)$  respectively  $T_n(x)$  the empirical distributions determined by the first and second sample. Let

$$D_n^+ = \sup_x [S_n(x) - T_n(x)], \quad D_n^- = \sup_x [T_n(x) - S_n(x)]$$

and

$$D_n = \sup_x |S_n(x) - T_n(x)| = \max (D_n^+, D_n^-).$$

Gnedenko and Korolyuk [Doklady Akad. Nauk SSSR (N.S.) 54, 525-528 (1951); these Rev. 13, 570] gave the exact distribution of the statistic  $D_n$  and Gnedenko and

JUVANCZ, I.

Mathematical statistics in medicine. Orv. hetil. 94 no. 2:47-51 11  
Jan 1953. (CLML 24:1)

1. Doctor. 2. First Internal Clinic (Director -- Prof. Dr. Istvan  
Rusznak), Budapest Medical University.

ZOLTAN, O. T.; FISCHER, J.; JUVANCZ, I.; FOLDI, M.

Studies on the absorption of  $^{131}\text{I}$ -albumin and  $^{131}\text{I}$  from the subcutaneous tissues of the dog. Acta physiol. acad. sci. hung. 20 no.4:361-372 '61.

1. I Department of Medicine, Medical University, Budapest, Biometry Department, Mathematical Research Institute, Hungarian Academy of Sciences and II Department of Medicine, Medical University, Szeged.

(IODINE radioactive) (IODIDES metab)  
(SERUM ALBUMIN metab) (SKIN metab)

STRAUB, F. Bruno; ERNST, Jeno; JUVANCZ, Ireneus; BALOGH, Janos;  
SZENTAGOTHAI, Janos, dr.; TORO, Imre, dr.; BALINT, Andor;  
BARTUSZ, Lajos

An account of the 1962 work made by the directorate of the  
Biological Section. Biol tud kozl MTA 5 no.3-4:165-202 '62.

1. "A Magyar Tudomanyos Akademia Biologial Tudomanyok Osztalya-  
nak Kozlemenyei" szerkesztoje (for Straub). 2. "A Magyar  
Tudomanyos Akademia Biologial Tudomanyok Osztalyansak  
Kozlemenyei" szerkeszto bizottsagi tagja (for Szentagothai  
and Toro).

RUSZNYAK, Istvan, akademikus; STARK, Ervin az orvostudomanyok kandidatas;  
FOLDI, Mihaly, az orvostudomanyok doktora; BUKI, Bela;  
JUVANCZ Ireneusz, dr.; FISCHER, Janos, matematikus

Investigations in determining the effect of rutin and ascorbic acid on the capillary resistance in rats. Biol orv kozl MTA 13 no.1-2:1-10 '62.

1. Magyar Tudomanyos Akademia Kiserleti Orvostudomanyi Kutato Intezete (for Rusznyak, Stark, Foldi, and Buki). 2. Magyar Tudomanyos Akademia Alkalmazott Matematikai Intezete Biometriai Csoportja vezetoste (for Juvancz).

JUVANCZ, Ireneusz

"Fundamentals of biological statistics for natural scientists, agriculturists, and physicians" by E. Weber. Reviewed by Ireneusz Juvancz. Magy pszichol szemle 19 no.2:251 '62.

JUVANCZ, Ireneusz, dr.

"Measurement: definitions and theories" by C.W. Churchman and  
P. Ratoosh. Reviewed by Ireneusz Juvancz. Magy pszichol szemle  
19 no.4:493-494 '62.

JUVANCS, Ireneusz, az orvostudomanyok kandisatusa

The concept of biometry and general aspects of its application. Magyar  
tud 69 no.11:683-694 N '62.

1. Magyar Tudomanyos Akademia Matematikai Kutato Intezete osztalyvezetoje.

\*

JUVANCZ, Ireneusz, dr.

Psychometry. Magy pszichol szemle 20 no.4:614-617 '63.

1. Magyar Tudomanyos Akademia Matematikai Kutatointezet.

JUVANCZNE UPOR, Veronika; ORDOGH, Maria

Neutron activation analysis of high-purity silicon. Koz fiz  
kozl MTA 12 no.5:365-376 '64.

1. Central Research Institute of Physics, Hungarian Academy  
of Sciences, Budapest.

JUVARA, A.M.

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Rumanian M Rev. no.3:31-33 Jl-S '60.  
(GIARDIASIS blood) (BLOOD PROTEINS chemistry)

LUCIAN, Otilia, dr.; SIMIONESCU, Olga, dr.; POMPAN, L., dr.; BOIAN,  
Alexandra, dr.; BRINZEI, A., dr.; JUVARA, A.N.; PESCARU, Ecaterina

Study of the effectiveness of different methods of treatment in  
lambliasis. *Pediatria (Bucur.)* 14 no.3:265-271 My-Je '65.

1. Lucrare efectuata in Institutul "dr. I. Cantacuzino", Sectia  
parazitologie, Institutul medico-farmaceutic, Bucuresti; Catedra  
de parazitologie si Spitalul de copii "23 August", Sectia de  
parazitologie.

JUVARA, I.; GATOSCHI, Gh.; LUPU, A.; PRISCU, Al.

Clinical and radiological study of biliary, duodenal and pancreatic disorders after the Reichal-Polya type of gastropylor-rectomy. Probl.ter., Bucur. 2:7-31 1955.

1. Institutul de terapeutica al Academiei R.P.R., Sectia de chirurgie, spitalul Coltea si clinica a V-a chirurgicala.

(STOMACH, surg.

gastropylorectomy, postop. biliary, duodenal & pancreatic disord.)

(BILINARY TRACT, dis.

dysfunt. caused by gastropylorectomy & postop. dystonia)

(DUODENUM, dis.

postop. dystonia & dysfunt. caused by gastropylorectomy)

(PANCREAS, dis.

(same))

RUMANIA/Human and Animal Physiology - Respiration.

V-5

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18237

pneumoperitoneum promotes hypoventilation. Novocaine block of the lower intercostal nerves eliminates hypertonia of the peripheral part of the diaphragm, while the ensuing hypotonia promotes normalization of the movements of the diaphragm.

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JUVARA, I.; GIOSAN, E.; RATTU, C.

Modifications of tissular oxygen during spinal anesthesia; the value  
of oxygen treatment for the control of troubles caused by spinal anesthesia.  
Romanian M. Rev. 1 no.3:13-15 July-Sept 57.

(METABOLISM, TISSUE

oxygen consumption changes in spinal anesth., oxygen ther.)  
(ANESTHESIA, SPINAL, compl.

oxygen consumption changes, oxygen ther.)  
(OXYGEN, ther. use

oxygen consumption changes in spinal anesth.)

JUVARA, I., Conf.; MUNTEANU, R. Dr.; IVANOVICI, F. Dr.

The role of re-establishment of water-electrolyte balance in physiopathology  
and clinical management of pyloric stenosis. Med. int., Bucur. 9 no.7:  
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(BODY FLUID BALANCE

    maintenance in pyloric stenosis)

(PYLORUS, stenosis

    maintenance of water-electrolyte balance)

EXCERPTA MEDICA Sec 8 Vol 12/9 Neurology Sept 59

4351. SURGICAL MANAGEMENT OF MYASTHENIA GRAVIS. IMMEDIATE AND LONG-RANGE RESULTS AFTER THYMECTOMY - Tratamentul chirurgical al miasteniei gravis. Rezultatele imediate si tardive dupa timectomie - Juvara I., Rajiu O. and Prișcu A., Clin. de Chir., Spital 'Bernat Andrei', București - NEUROLOGIA (București) 1958, 3/2 (149-162) Tables 1 Illus. 3

A study was made of 22 patients in whom thymectomy had been performed during the period 1950-1957. Psychical trauma appears to have played an essential part in precipitating in these patients a pathological mechanism of initial cortical-diencephalic-hypophyscal nature, with secondary endocrine repercussions. The thymus probably constitutes a central link in the chain of neuro-endocrine-humoral disturbances. Its extirpation gave good immediate and long-term results in 58% of the cases, especially in patients without thymus tumours. However, the myasthenic disturbance persisted in a latent state, even after operation. Gaitan - Bucharest

EXCERPTA MEDICA Sec 8 Vol 12/10 Neurology Oct 59

5162. THE RISKS OF LUMBAR SYMPATECTOMY - Pericolele simpaectomiei lombare - Juvara I., Fux I., Prișcu Al. and Ivanovici Fl. Clin. a V-a Chir., Spital "Bernath Andrei", București - CHIRURGIA (București) 1958, 7/1 (41-45)

On the basis of 3 cases in which the ischaemic disturbances worsened after lumbar sympatectomy, the authors draw attention to the dangers of ill-advised sympaectomy in patients with endarteritis. The possible causes of failure of lumbar sympatectomy are discussed.

Arseni - Bucharest

EXCERPTA MEDICA Sec 9 Vol 13/6 Surgery June 59

3285. GASTRO-ILEAL ANASTOMOSIS - Anastomozele gastro-ileale - Juvara I., Prisecu AI, and Ivanovici FI, Clin. a V-a Chir., Spital "Bernal Andrei", Bucuresti - CHIRURGIA (Bucuresti) 1958, 7/3 (307-375) Illus. 2

A report on 4 cases, 2 of which were associated with resection of the stomach, is presented. Exclusion of the duodenum and jejunum from the digestive transit by the performance of gastro-ileal anastomosis, results in the onset of a severe and progressive waste, the characteristics of which are loss of weight, hypoproteinæmia and hydrosaline retention. Only surgical management, i.e. reintegration of the jejunum into the digestive transit, is capable of saving the life of these patients. Postoperative resumption of feeding must be gradual, as regards both the quality and the quantity of food. Patients exhibiting a very advanced waste syndrome should be subjected to a first surgical stage consisting in a high jejunal fistula enabling them to be fed until the waste syndrome has been compensated.

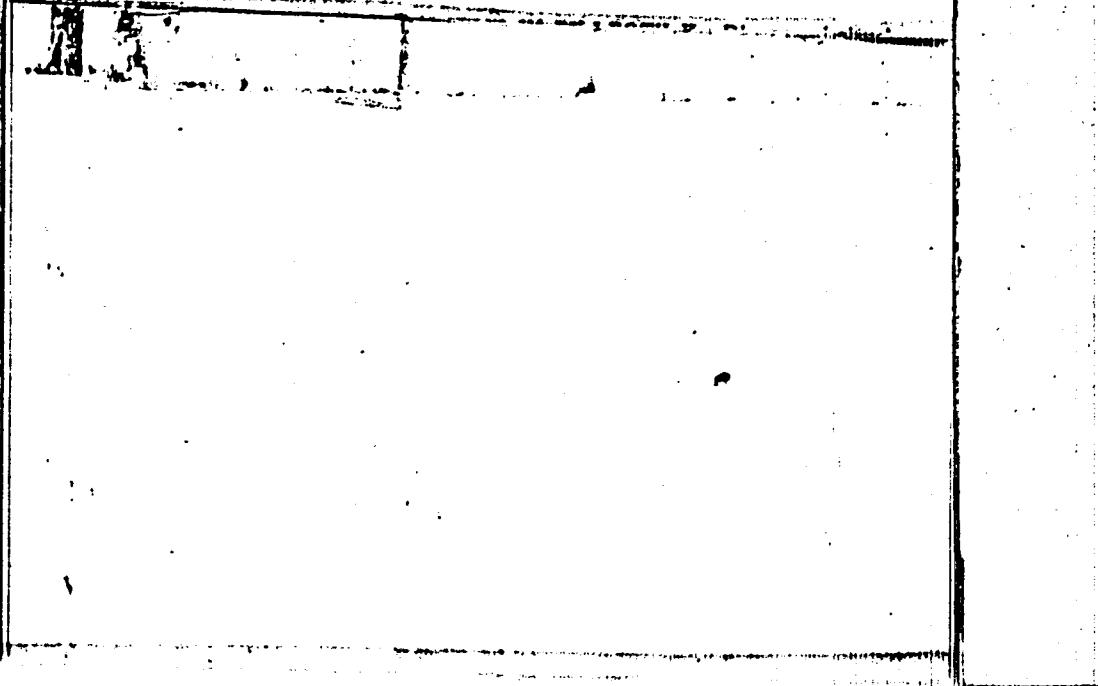
JUVARA, I.; IVANVICI, R.; MUNTEANU, R.; CONSTANTINESCU, C.

~~Restoration of metabolic balance through a jejunal tube. Med. int.,~~  
~~Bucur. 10 no.4:555-564 Apr 58.~~

1. Spitalul "Bernat Andrei", Clinica chirurgicala, Bucuresti.  
(BODY FLUID BALANCE  
maintenance by admin. of fluids through jejunal tube, comparison  
with parenteral method.

EXCERPTA MEDICA Sec 9 Vol 13/8 Survey August 59

4534. PEDICULATED EPIPOLOIC FLAP FOR ENSURING OESOPHAGOGASTRIC  
ANASTOMOSES - Lambeau épiploïque pédiculé pour assurer les anastomoses  
œsogastriques - Juvara I. and Ratiu O. Ve Clin. Chir., Bucarest -  
PRESSE MED. 1958, 88/43 (883) Illus. 3



EXCERPTA MEDICA Sec 15 Vol 13/3 Chest Dis. Mar 60

594. The SURGICAL TREATMENT OF LARGE HYDATID CYSTS OF THE LUNG - Contribution au traitement chirurgical des grands kystes hydatiques du poumon - Juyvara I, and Vasilescu D. V. Clin. Chir., Univ. de Bucarest - LYON CHIR. 1959, 55/2 (209-223) Illus. 15

The principal problem in the surgical treatment of pulmonary hydatid cyst is the method of treating the resulting cavity and bronchial fistulae. In the case of large hydatid cysts the problem is more acute on account of the size of the cavity and, above all, the large bronchial fistulae. The functional restoration of the affected pulmonary parenchyma depends on the type of bronchial fistula. If there is a terminal fistula the pulmonary parenchyma related to the bronchus cannot recover; if the fistula is tangential, the maintenance of the bronchial tract allows the distal parenchyma to recover. Finally, in order to conserve the parenchyma and to solve the problems raised by the production of a residual cavity, it is recommended that the cavity be extended by the excision of the walls to such an extent that

EXCERPTA MEDICA Sec 6 Vol 1/6 Internal Med. June 60

3562. EMBRYONAL INCLUSION AS A DECISIVE FACTOR IN THE CAUSATION  
OF RIGHT PARTIAL DIAPHRAGMATIC EVENTRATION - Der embryonale  
Einschluss als bestimmender Faktor in der Entstehung der rechten, partiellen  
Zwerchfelleventration - Juvara J., Priscu A., Gabrielacu E.  
and Vasilescu V. Chir. Univ.-Klin., Bukarest - ZBL. CHIR. 1959,  
84/33 (1305-1312) Illus. 5

A report is given of a case in which the resected fragment contained an embryonal  
inclusion with glandular activity. The following conclusions are drawn: The in-  
corporated glands may be of hepatic or of pulmonary nature; the evidence indicat-  
ing a hepatic origin is stronger. The active glandular inclusion represents a weak

ZHUVARA, Ion; Zhuvara, I.; REDULESKU, Dan [Redulescu, D.]

Treatment of vesicosigmoid fistulae. Urologiia 28 no.2:  
54-56 Mr-Ap'63. (MIRA 16t6)

1. Iz khirurgicheskogo otdeleniya (zav. Ion Zhuvara) Bukharest-  
skoy rayonnoy bol'nitsy "Dr. Shtefan Stynke".  
(FISTULA, INTESTINAL)

EXCERPTA MEDICA Sec 9/Vol 13/5 SURGERY May 59

2709. BILIO-BRONCHIAL FISTULAS CAUSED BY HYDATIDS - Les fistules bilio-bronchiques d'origine hydatique - Juyara J., Manesco G. and Vasilescu D. Ve Clin. Chir., Hôp. 'Bernat Andrei', Bucarest - LYON CHIR. 1958, 54/3 (405-417) Illus. 9

The broncho-bilious fistulae of hydatic origin represent a complex nosological

2709

entity which affects the lung and liver. The pulmonary lesions may have their own evolution independent of that of the liver. Surgical treatment must be adapted to each case and will be decided upon by the general condition of the patient, the radiological appearance of the lesions, and the degree to which the liver and the lung have been attacked. Exclusive draining of the hepatic cavity is an intervention called for by necessity, and hence obviously incomplete, which can leave persistent pulmonary sequelae. Intervention by way of the thoracic route permits a broad approach to the hepato-pulmonary lesions and the choice of better operational tactics.

(IX, 15\*)

PARHON, C.I., academician.; POTOP, I.,; BABES, A.,; PETRINA, I.,; FELIX, E.,; JUVINA, E.

Decrease in malignancy of methylcholanthrene-induced tumors (mesenchymomas) in white rats following thymus extract therapy. Bul. stiint., sect. med. 7 no.3:863-870 July-Sept 55.

(NEOPLASMS, experimental

    methylcholanthrene-induced mesenchymomas, eff. of thymus extract)

(MESENCHYMOA, experimental

    methylcholanthrene-induced in white rats, eff. of thymus extract)

(THYMUS

    extract, eff. on methylcholanthrene-induced tumors in white rats)

PARHON, C. I., Academician; POTOP, I.; BABES, A.; PETEWA, I.; JUVINA, E.;  
FELIX, E.

Morphological and biochemical studies of experimental cancer in  
thymectomized rats. Bul. stiint., sect. med. 8 no.2:499-515 Apr-  
June 56.

(NEOPLASMS, experimental  
eff. of thymectomy, in rats, morphol. & biochem. study)  
(THYMUS, eff. of excision  
on develop. of exper. cancer, in rats, morphol. & biochem.  
study)

POTOP, Isabela; JUVINA, Elena; LUPULESCU, Aurel

Effect of some thymus extract fractions on the development of  
experimental malignant tumors. Cas.lek.cesk 100 no.23:720-724  
9 Je '61.

1. Endokrinologicky ustav Rumunske Akademie ved v Bukuresti, reditel  
akademik Stefan Milcu.

(NEOPLASMS exper) (THYMUS GLAND extracts)

VAISLER, L.; COSTINER, Emma; JUVINA, Elena

Uptake of radioiodinated compounds in animals with liver damage  
caused by CCl<sub>4</sub> and treated with vitamin B 12; Stud. cercet.  
endocr. 13 no.6:767-771 '62.

(LIVER FUNCTION TESTS) (IOBINE ISOTOPES, DIAGNOSTIC)  
(HEPATITIS, TOXIC) (CARBON TETRACHLORIDE POISONING)  
(VITAMIN B 12)

NEACSU, C.; SERBAN, Al. M.D.; JUVINA, Elena; STATESCU, L.

Contributions to the study of cerebral metabolism under hormone influence. Comunicarile AR 13 no.1:95-102 Ja '63.

1. Comunicare prezentata de academician St.-M. Milcu.

SAHLEANU, V.; HOLBAN, Ruxandra; JIWINA, Elena; SEBAN, Al. M.D.

Epiphysectomy influence on the estrogen hormone effects on white rats.  
Comunicarile AR 13 no.2:141-144 '63.

SERBAN, Al. M.D.; SIMIONESCU, N.; JUVINA, Elena; POPESCU, Alice

Interference with the action of estrogens by administration of pineal extract. Stud. cercet. endocr. 14 no.2:243-251 '63.  
(ESTROGENS) (UTERUS) (VAGINA) (MUSCLES)  
(LIVER) (PINEAL BODY) (TISSUE EXTRACTS)

JUVINA, Elena

The effect of a protein extract of the thymus gland on the uptake of P-32 and S-35 methionine by Ehrlich's ascites tumor transplanted to chick embryos. Rev. sci. med. 8 no.3/4:123-125 '63.

(CARCINOMA, EHRЛИCH TUMOR) (METABOLISM)  
(PHOSPHORUS ISOTOPES) (SULFUR ISOTOPES)  
(METHIONINE) (THYMUS GLAND) (TISSUE EXTRACTS)

SAHLEANU, V.; HOLBAN, Ruxandra; JUVINA, Elena; SERBAN, Al. M.D.

Changes in radiophosphorus uptake in organs of the white rat  
after epiphysectomy and pseudo-epiphysectomy. Studii cercet.  
endocr. 16 no.2:121-127 '65.

JUZA, Jan

International Conference on Water Vapor Properties in  
New York. Vestnik CSAV 73 no. 1: 160-162 '64.

1. Clen korespondent Ceskoslovenske akademie ved.

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reactor will continually depend on changes in the concept of the core of the reactor.

APPROVED FOR RELEASE: 08/10/2001

**CIA-RDP86-00513R000619720009-7"**

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JUZA, J; BOHATA, F; HRSIKA.

Electric motors at the Leipzig Fair, 1957.

p. 261 (Elektrotechnik) Vol. 12, no. 8, Aug. 1957, Praha, Czechoslovakia

SC: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, Jan. 1958

44-7 272  
CZECHOSLOVAKIA/Nuclear Physics - Nuclear Power and Technology

C-8

Abs Jour : Ref Zhur - Fizika, No 8, 1958, No 20054

Author : Juza Jan

Inst : Not Given

Title : Thermal Cycle of Nuclear Electric Stations with Gas-Cooled Reactor.

Orig Pub : Jaderna energie, 1958, 4, No 1, 2-9

Abstract : Results are reported on a detailed analysis of the influence of the gas temperature at the inlet of the reactor, of the superheat of the steam before the low pressure section of the turbine, and of the feedwater heating on the cycle efficiency with one or two stages of steam pressure, obtained in a steam generator, with allowance for the losses due to the circulation of the gas coolant. No account is taken here of the influence of the variations of the parameters of the primary loop, or of the breeding of the nuclear fuel in the reactor. The calculations were carried out for gas temperatures 400, 450, and 500° C at the reactor outlet. The proposed

Card : 1/2

JUZA, Jan

A thermal cycle of nuclear power electric plants with a  
gas-cooled reactor. Jaderna energie 4 no.1:2-9 Ja '53.

1. Clen korespondent Ceskoslovenske akademie ved, Zavody  
V.I. Lenina, Plzen.

JUZA, J., dr.

Rationalization of large steam turbine production.  
Strojirenatvi 12 no.8:624-628 Ag '62.

1. Leninovy zavody Plzen.

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26/2252

AUTHOR: Juza, Jan

TITLE: Thermal Cycle of Nuclear Power Plants With Gas-Cooled Reactor (Part II)

PERIODICAL: Jaderná energie, 1960, No. 5, pp. 150 - 153

TEXT: The article deals with optimum parameters of thermal cycles with two and three steam-pressures in nuclear power plants with gas-cooled reactors. A system using three steam pressures is proposed as optimum solution. Its block schematic is shown in Figure 1, with indicated values applicable to a 200 Mw unit operating at  $\text{CO}_2$  parameters similar to those to be used at the projected Czechoslovak nuclear power plant (Ref. 2). The steam flow leaving the reactor is divided into 3 branches. One branch passes through the medium-pressure superheater, the second through a reheater, and the third through a high-pressure superheater and evaporator. All three branches reunite before the medium-pressure evaporator. The low-pressure steam reheater is heated by condensation of part of the medium-pressure (12 atm) saturated steam. The cycle efficiency has been calculated considering the same conditions as in Reference 1. Specifically, the

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Thermal Cycle of Nuclear Power Plants With Gas-Cooled Reactor (Part II)

following values were taken as calculation bases: Minimum temperature difference between gas and water = 15°C; temperature difference between gas and superheated steam = 20°C for pressures above 30 atm, = 30°C for pressures between 10 and 20 atm, = 40°C for pressures between 4.6 and 7 atm; pressure in steam generator 1.1 times that of steam before the turbine; pressure losses in reheating = 12%; condenser pressure = 0.05 atm; thermodynamic efficiency of the turbine = 85%, this value being reduced by 1% for each 1% of moisture content at expansion in moist steam. The power input of the feeding pump was deducted from the effective work of the turbine, the value having been calculated on the grounds of the energy transferred to water by the feeding pump. A constant specific heat of the gas coolant was assumed. The volume of the circulating gas was considered to be uniform, assuming in all cases that for each 1°C temperature drop of gas, heat equivalent to 1 Mw was transferred. Thermal efficiency is given for the output on the turbine coupling, neglecting the thermal losses in the reactor, steam generator and piping. Thermal efficiency of a number of cycles with systematically graded parameters was calculated and optimum efficiency and values of the individual parameters were graphically determined. The thermal efficiency of a

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Thermal Cycle of Nuclear Power Plants With Gas-Cooled Reactor (Part II)

cycle with optimum parameters for the temperature range from 400 to 600°C at a pressure of 200 atm (Fig. 2). It can be seen that for a temperature  $t_1 = 400^\circ\text{C}$  of the gas leaving the reactor, and a temperature  $t_2 = 150^\circ\text{C}$  of the gas leaving the steam generator, a two-pressure cycle without reheating has an efficiency of 29.6%, while a three-pressure cycle with reheating has an efficiency of 31.2%, i.e., a heat consumption lower by 5.1%. This shows that the introduction of a third steam pressure is justified for a lower  $t_2$  temperature range. Figure 3 shows the dependence on temperature  $t_2$  of the optimum pressure of the high-pressure steam, and Figure 4 that of the optimum pressure of the medium-pressure steam for a cycle with three steam pressures, while Figures 5 and 6 show the same respective dependence for a cycle with two steam pressures. From all these graphs can be seen a pronounced tendency toward an increase of the optimum pressures at increasing temperatures  $t_1$  and  $t_2$ . At a temperature  $t_1 = 600^\circ\text{C}$  the highest calculated pressure of 200 atm shows, through the entire  $t_2$  temperature range, a heat consumption about 1% lower than a pressure of 160 atm. This is practically the same value as is achieved by coal-fueled thermal power plants. Results of the considerations of optimum parameters for nuclear power plants operating at  $t_1 = 600^\circ\text{C}$ , therefore, will be similar to conclusions reached for a

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## Thermal Cycle of Nuclear Power Plants With Gas-Cooled Reactor (Part II)

power plant fueled with very inexpensive coal. Considering the engineering difficulties encountered in designing power units with turbines operating at 200 atm (220 atm in the steam generator), a pressure of 160 atm appears to be the optimum pressure. The curve of the thermal efficiency dependence on pressure  $p_1$  (high pressure) and  $p_2$  (medium pressure) is rather flat and, therefore, deviations of  $\pm 20\%$  from the optimum values can occur resulting in heat consumption increases not exceeding 1%. The optimum parameters of a three-pressure cycle are substantially higher. E.g., if  $t_1 = 450^\circ\text{C}$  and  $t_2 = 140^\circ\text{C}$ , a three-pressure cycle will have  $p_1 = 55$  atm and  $p_2 = 15$  atm, while in a two-pressure cycle these values are 55 and 7.3 atm, respectively. Higher steam pressures facilitate the designing of steam generators, turbines and piping for high-output power units. Figure 7 shows optimum temperatures of feed water in dependence on  $t_1$ . Up to  $t_2 = 120^\circ\text{C}$ , the optimum cycle is without water heating, and at  $t_2 = 225^\circ\text{C}$ , the optimum feed-water temperature is  $175^\circ\text{C}$ . A three-pressure cycle, therefore, is justified for such  $t_2$  temperature ranged in which feed-water heating would yield but a very small gain or none at all. Assaying the advantages and disadvantages of either cycle, the author comes to the conclusion that a three-pressure system

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## Thermal Cycle of Nuclear Power Plants With Gas-Cooled Reactor (Part II)

is of advantage at a temperature  $t_2$  lower than 150°C for  $t_1 = 400^\circ\text{C}$ , and  $t_2$  lower than 115°C for  $t_1 = 600^\circ\text{C}$ . The equipment for a three-pressure cycle is not much more complicated than that for a two-pressure cycle and its solution is shown in Figure 1. The main turbine is of a two-pressure design using high- and medium-pressure steam. The low-pressure steam is used by the nuclear power plant's own turbine supplying power to the reactor blowers. It uses all of the low-pressure, and part of the medium-pressure steam and is likewise of a two-pressure type. Preliminary studies showed the feasibility of a single-shaft, 200 Mw turbine with 3,000 rpm even for comparatively low temperatures of the gas coolant. Calculations for this turbine type have been made for  $t_1 = 425^\circ\text{C}$ ,  $t_2 = 95^\circ\text{C}$ , and a three-pressure cycle with parameters approximating those indicated in Figures 3 and 4. The following steam parameters have been chosen: High-pressure steam 70 atm, 405°C with reheating to 395°C at 12 atm; medium-pressure steam 12 atm, 395°C, low-pressure steam 2 atm, 160°C. Steam expands from 70 to 13.44 atm in the high-pressure stage, from 12 to 4 atm in the double-flow, medium-pressure stage, and from 4 to 0.035 atm in two double flow, low pressure stages. The last stage has 900 mm blading on a pitch diameter of 2,500 mm. Consequently, peripheral speeds in the last stages are high, but permissible since

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Thermal Cycle of Nuclear Power Plants With Gas-Cooled Reactor (Part II)

the outlet steam moisture is a very favorable 9%. Exhaust loss of 6.7 kcal/kg is within normal limits. The efficiency and output of this equipment are favorably influenced by increasing temperature  $t_1$ . Thus, by retaining  $t_2 = 95^\circ\text{C}$  and increasing  $t_1$  from 425 to 500°C, the thermal efficiency will rise from 28.8% to 32.0%, heat consumption will decrease by 10% and the output will grow by 37% from 95 to 130 Mw. In conclusion, the author states that it cannot be decided in advance whether for a given nuclear power plant type a lower  $t_2$  and a three-pressure cycle is better than a higher  $t_2$  and a two-pressure cycle as long as the  $t_1$  is in the 400°C range. When  $t_1$  is increased to the 600°C range, the two-pressure cycle is the only practical solution. The author gives credit to Engineer J. Balcar for performing all calculations required in the preparation of this paper. (Edited by F. Klik.) There are 8 figures and 2 references: 2 Czech and 1 English.

ASSOCIATION: Závody V.I. Lenina (V.I. Lenin Works) in Plzeň

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AUTHOR:

Juza, Jan

TITLE:

Thermal cycle of nuclear power stations with gas-cooled reactors

PERIODICAL:

Jaderná energie, no. 4, 1961, 117 - 121

TEXT: Nuclear power stations currently under construction or in the designing stage are characterized by relatively high capital cost and low thermal efficiency. Better economy and performance can be obtained with a combination of the nuclear and fossil fuels. A calculation and analysis of optimum thermal-cycle parameters of nuclear power stations with a gas-cooled reactor and fossil-fuel-fired steam superheaters are presented. The study considers a system as shown in Fig. 1. Thermal efficiency was calculated for conditions and parameters described in the previous two papers (Ref. 1: J. Juza, Jaderná energie 4/1958/, no. 1, p 2; and Ref. 2: J. Juza, Jaderná energie 6/1960/, no. 5, p 150), as follows: Minimum temperature difference between the gas coolant and water is 15°C; steam pressure in the boiler is 1.1 times that before turbine; pressure loss at reheating is 12%; pressure in

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